RESISTANCE LEVELS

by W. D. Gann (course statistics)

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DOW-JONES 20 RAILROAD AVERAGES

BOTTOM AND TOP FORMATIONS

1896 - 1914

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1896 Aug. 8
                Sharp bottom or single "V" - Low 42.
     Jan. 16
                to 23 and March 20 - Flat double top "M".
1897
                Sharp bottom and 4 weeks narrow on side in 1-point range.
      Apr.
      Sep.
                Sharp or "A" top at 1/2 point from 42 to 92.
      Nov.
                Sharp or "V" bottom.
1898 Feb.
                Flat top ... 2 weeks in 1-point range.
      Mch. 5
                to April 23 - Flat bottom ... triple bottom near same level.
                Sharp top.
      Aug.
      Oct. 1
                to Nov. 5 - Flat bottom ... 6 weeks in 1-point range.
1899 Apr. 1
                to 29 - Flat top ... 5 weeks in 2-point range.
      Jun. 3
                Sharp bottom.
      Jul. 29
                to Sep. 9 - Flat top ... 7 weeks in 2-point range;
                1st lower top after April.
                Sharp top ... 4 weeks on side in 2-point range ... 2nd lower top.
      Nov.
      Dec. 23
                Sharp bottom.
1900 Apr. 7
                Sharp top ... 4th lower top.
      Jun. 23
                Sharp bottom ... 1st higher bottom and double bottom against
                Dec. 1899 low.
                Flat intermediate or middle top.
      Aug. 18
      Sep. 29
                Sharp bottom ... a triple bottom and 3rd higher bottom ... strong
                and good buying point.
1901 May
            4
                Sharp top.
                Sharp bottom ... panic.
      May
           8
      Jun. 15
                Sharp top ... 2 narrow eeks on side ... a double top.
      Aug. 10
                Sep. 14 and Oct. 12 - Sharp bottoms ... triple bottoms with 2nd
                and 3rd bottoms higher than the 1st ... strong.
1902 Sep. 13
                A sharp top and sharp decline followed.
                and Dec. 13 - Two sharp bottoms ... double bottoms.
      Nov. 15
1903 Jan. 10
                Sharp top with 5 weeks on side in 2-point range.
      Jul. 11
                Sharp top ... 2 weeks rally followed.
                Sharp top ... 3 weeks on side in 2-point range.
      Aug. 22
      Sep. 19
                to Nov. 14 - Triple bottoms ... 3rd bottom higher.
1904 Jan. 23
                Sharp or "A" top.
      Feb. 27
                to Mch. 19 - Flat bottom ... 3 weeks in 2-point range.
      Dec. 3
                Sharp top ... 3 weeks' reaction.
1905 Mch. 18
                and Apr. 15 - A double flat top.
      May 27
                Sharp bottom.
      Sep.
                to Nov. - Flat top but only declined 4 points.
1906 Jan. 19
                Final sharp top ... sharp decline followed.
      May
                Sharp bottom ... sharp rally followed.
           5
      Jun. 16
                Sharp top ... sharp decline followed.
      Jul. 7
                Sharp bottom ... sharp rally followed.
      Sep. 18
                to Oct. 13 - Flat top ... 7 weeks in 2-point range, just under
                January top.
      Nov. 17
                to Dec. 22 - Flat top ... 4 weeks in 3-point range. A panicky
                decline followed this 3rd lower top.
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decline followed.

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1907 Moh. 14
                to 25 - A sharp bottom.
      Apr. 6
                to May 11 - Sharp double tops.
      Jun. 8
                Flat bottom ... 4 weeks in 2-point range.
      Jul. 6
                to 27 - Flat top ... 4 weeks in 3-point range.
      Nov. 23
                Sharp bottom and sharp rally followed.
1908 Jan. 18
                Sharp bottom and sharp decline followed.
      Feb. 15
                to Mch. 7 - Flat narrow bottom ... 3 weeks in la-point range.
      May 23
                Sharp top.
      Jun. 27
                Sharp bottom.
      Sep. 12
                Sharp top.
      Sep. 22
                Sharp bottom ... quick, sharp rally followed.
1909 Jan. 2
                Sharp top.
      Feb. 27
                Sharp bottom.
      Aug. 14
                Sharp top followed by sharp reaction.
      Sep. 11
                Sharp bottom.
      Sep. 18
                to Oct. 9 - Flat top ... 4 weeks in 2-point range ... 1st lower
1910 Jul. 26
                Sharp bottom ... end of Bear Market ... quick rally followed.
      Oat. 22
                Sharp top.
      Dec. 10
                Sharp bottom.
1911 Feb. 4
                to 18 - Flat top ... 3 weeks in 2-point range.
      Mch. 11
                and Apr. 22 - Double bottoms.
      Jun. 10
                to Jul. 29 - Flat narrow top ... 7 weeks in 2-point range.
      Sep. 30
                Flat bottom ... 4 weeks in 2-point range.
1912 Aug. 17
                to Oct. 3 - Double tops ... narrow range ... 3rd top from
                July 22, 1911. A prolonged decline followed.
1913 Jun. 14
                Sharp bottom.
      Nov. 15
                to Dec. 20 - Flat double bottoms.
      Sep. 13
                to 27 and
1914 Jan. 24
                to Feb. 7 - Double flat tops ... narrow range.
      Apr. 25
                A sharp bottom ... slow rally followed.
                to July 11 - Flat top ... 9 weeks in 2-point range ... a panicky
      May 23
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BREAKAWAY POINTS IN BULL & BEAR MARKETS DOW-JONES 30 INDUSTRIAL AVERAGES STUDY THESE POINTS ON THE CHART

YEAR							WEEKS	POINTS
1897	June	5	to S	ept.	4		12	3.6
1897	Oat.	2				1898	10	16 14
1898	May	7			8	2000	12	15
1898	Dec.	3		_		1899	9	
1899	Dec.	9			3	1000	3	20
1900	Oct.	20				1901	10	15
1901	July	13			4	1001	15	18
1903	Mch.	28			7		29	14
1904	July	9				1905	40	25
1905	June	24				1906	30	33
1906	Feb.	17			5	2000	8	28
1906	July	28			3		11	14 8
1907	Feb.	9			5		7	16
1907	July	6			5		19	25
1908	Feb.	29			4		23	25
1909	Apr.	3			2		25	16
1910	Jan.	3			2		6	13
1910	Apr.	30			6		13	16
1910	Oct.	1			9		4	
1911	Aug.	5		ept. 3			8	6
1911	Nov.	11			7,	1912	46	12
1912	Dec.	7				1913	15	15 12
1913	Apr.	26		me 1			7	
1913	July	19		ept. 1			8	9
1913	Oat.	4		80. 2			11	8 6
1913	Dec.	27				1914	iż	. 2
1914	July	25			4		21	27
1915	Mch	20			ì		6	13
1915	July	24			ō		32	28
1916	Jan.	22			9		14	10
1916	Aug.	12			4		14	
1916	Dec.	9			3,	1917	8	13 12
1917	June	16			2		26	30
1918	Jan.	-5			9		41	14
1919	Feb.	22		uly 1			21	30
1919	Aug.	2		ug. 2			3	10
1919	Aug.	30			8		10	18
1919	Nov.	15				1920	17	23
1920	Mch.	6		pr. 1		1520	5	10
1920	Apr.	24		ay 2		'	5	14
1920	July	24		. 2			23	23
1921	May	21		ıg. 2			15	13
1921	Sept.	10		-		1922	59	13
1923	Mch.	24			4	1044	19	16
1923	Nov.	10		_		1924	13	10
1924	Moh.	23			4	2001	10	9
1924	June	14		ng. 2			18	14
1924	Nov.	8		-		1925	18	16
		-	ut.	1	.,	7000	10	10

BREAKAWAY POINTS IN BULL & BEAR MARKETS DOW-JONES 30 INDUSTRIAL AVERAGES (Cont.) STUDY THESE POINTS ON THE CHART

YEAR					WEEKS	POINTS
1925	May S)	Feb. 27,	1926	41	36
1926		1	Apr. 17		9	19
1926		5	Aug. 21		11	18
1926	Sept. 1		Oct. 16		5	12
1927	Apr. 1		Sept. 24		22	31
1927	Sept. 3	0	Oct. 15		2	14
1928	Mch. 1	7	May 12		8	14
1928	Aug. 1	В	Oct. 8		15	68
1928		8 to	Oct. 22		2	24
1928	Oct. 2	2	Feb. 9	, 1929	16	40
1929	Mch. 2	2	Mch. 30		1	4
1929	Apr. 3		May 11		2	8
1929	May l		June 8		3	9
1929	July	6	Sept. 3		8	38
1929	_	7	Nov. 13		9	160
1929		6	Dec. 14		4	46
1930	Jan. 2		Apr. 17		13	38
1930		9	July 5		11	64
1930	Sept. 2		Nov. 15		8	62
1930		9	Dec. 20		3	27
1931		7	Feb. 24		3	20
1931		7	Jun. 2		12	64
1931		9	Jul. 27		2	27 20
1931		2	Aug. 8		5 5	45
1931	_	1	Oct. 3		4	24
1931		0	Nov. 9		8	42
1931		.6	Jan, 9	-		38
1932		.9	July 8 Sept. 8		17 8	31
1932		.6 7	Sept. 8 Oct. 30		7	16
1932 1933	Sept. Feb.	4	Feb. 27		3	8
1933	Apr.	8	Jul. 17		17	44
1933		.8	Jul. 21		ì	18
1933	-	3	Oct. 21		4	15
1933		.8		, 1934	12	15
1934	May	5	Jul. 26		12	17
1934		24		, 1935	14	8
1935		.3		, 1936	52	54
1936	_	0	Apr. 30		4	15
1936		30	Nov. 21		25	32
1936		88	Dec. 26		4	4
1937		16	Mch. 8		8	8
1937		27	Jun. 17		14	22
1937	Jul.	3	Aug. 14		6	20
1937		21	Oct. 19		9	65
1937		19	Oct. 29		1	18
1937		23	Jan. 15		7	15

BREAKAWAY POINTS IN BULL & BEAR MARKETS DOW-JONES 30 INDUSTRIAL AVERAGES (Cont.) STUDY THESE POINTS ON THE CHART

YEAR					WEEKS	POINTS
1938	Moh.	10	Mch.	31	3	28
1938	Jun.	25	Jul.	25	4	24
1938	Sept.	17	Sept.	26	1	10
1938	Sept.	28	Nov.	10	7	25
1939	Jan.	14	Jan.	28	2	14
1939	Moh.	18	Apr.	11	3	25
1939	Apr.	12	Jun.	9	8	15
1939	Jun.	10	Jun.	30	3	7
1939	Jun.	30	Jul.	25	3	12

TIME PERIODS FOR DIFFERENT FORMATIONS

DOW JONES 20 RAILROAD AVERAGES

The RUN OR ADVANCES

AFTER BREAKAWAY

IN A BULL MARKET

EXAMPLES:

Nov.		1898	to	April		1899,			advanced reakaway.	38	points
Mar.				Sept.			in 21	weeks	advanced		
July June				Mar. Jan.	19,	1905. 1906.		weeks	advanced advanced	29 19	points.
Mar. Mar.	7.	1908	to	Sept.	12,	1908,	in 26	weeks	advanced	20	points.

BREAKAWAY POINTS

IN A BEAR MARKET

EXAMPLES:

Feb.	21,	1903	to	Oct.	13,	1903.	in	33	weeks	declined	30	points.
Dec.	22,	1906	to	Mar.	25.	1907,	in	15	weeks	declined	36	points.
Aug.	10,	1907	to	Nov.	21,	1907.	in	15	weeks	declined	24	points.
Jan.	15,	1910	to	July	26,	1910,	in	27	weeks	declined	22	points.
Aug.	5,	1911	to	Sept.	30,	1911.	in	8	weeks	declined	12	points.
Dec.	7,	1912	to	June	14,	1913,	in	27	weeks	declined	17	points.
July	18,	1914	to	Dec.	23,	1914.	in	22	weeks	declined	ïı	points.

DOW JONES 30 INDUSTRIAL AVERAGES

	<u> </u>	
	Low 73 5/8 was 1/2 of 42 to 103 High 87 was 1/2 of 73 5/8 to 100½ Low 73 was 1/2 of 42 to 103 and same low as July 26, 1910. A double bottom and place to buy.	
1912 Oct. 10 Made several bottoms around Later Broke	High 94 was 3/4 of 73 5/8 to 100\(\frac{1}{2}\) 88 was 3/4 of 53 to 100\(\frac{1}{2}\) 87 was 1/2 of 73 5/8 to 100\(\frac{1}{2}\)	
1913 June 14	Low 72 1/8 was 3/8 of 53 to 103 and 1/2 of 42 to 103 A third time at this level - a buying point.	
1913 Sept. &)		
	High 83 3/8 was 1/2 of 72 1/8 to 94 1/8 and 3/8 of 73 to 1004	В
1914 July declined to	71 1/4 under three old bottoms and under 1/2 of 42 to 103 and 3/8 of 53 to 103 A sure sign of lower prices.	
1914 Dec. 24	Low 53 1/8 This was third time at this level. 1900 Low 53 1907 Low 53 1914 Low 53 1/8 Holding above 51 the 1/2 of 103 and 1/3 of 28 to 103 Made this a good support and buying point	
	in a panic.	
	The War Bull Market Followed.	
1915 May	High 71 3/4 just under the 3/8 of 53 to 103 and under three old bottoms.	
1915 June	Low 60 a secondary reaction 60 was 1/3 of 38 to 103	
1010 Jan	and 62 3/8 was 1/2 of 53 1/8 to 71 3/4	ż
1919 Jan.	High 99	
1916 Apr.	Low 85 was 5/8 of 53 to 103	
1916 Nov. 21	High 110 1/8 a sharp reaction followed.	
1917 Feb. 2	Low 87 was 5/8 of 53 1/8 to 110 1/8	
1917 June 9	High 99 was 7/8 of 281 to 110 1/8	3
	and 1/2 of 85 to 110	
	Later broke all important 1/2 points including 81 was 1/2 of 53 to 110 1/8	
	including 811 was 1/2 of 53 to 110 1/8	,

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARAT	IVE BO	TTOM	s and	TOPS	3									
1917	Dec.	19			Low	66		was	1/3	of	42	t.o	110	1/8
						•			3/8				110	
1918	Oct.	19			High	89						to	110	1/8
											53	to	110	1/8
1919	Feb.	8			Low	79	1/8	wa.e	1/2	of	53	to	110	1/8
								and	5/8	of	28 <u>1</u>	to	110	1/8
					A Big	3 Bu	ll Marl	set fo	llow	ed.				
1919	Nov.	3 1	A New	High	1 1	119	5/8	Ав	harp	dec	line follow	wed.		
1920	Feb.	25			Low						281			1/8
								and	5/8	of	48	t.o	119	5/8
								and	2/3	of	28½ 79 1/8 66	to	119	5/8
1920	Apr.	8			High	105		WAS	5/8	of	79 1/8	to	119	5/8
								and	3/4	of	66	to	119	5/8
								and	1/2	of	90	to	119	5/8
							clined,	,						•
					to 99	9		was	1/2	of	79]/8	to	119	5/8
1921	Aug.	24			Low	64	Just	2 poi	nts :	unde:	r 1917 Low	в.		
					ti	64		was	1/3	of			119	
						62	B/8	Wate	3/8	of	28 }	to	119	5/8
					This	was	a fins	al lov	and	the	gréatest			
					BULL	mar	ket in	histo	ry r	0110	wed.			
					(Note	:	When av	/erage	s cr	0888	d 80 they			
							ve							5/8
					and				1/2	of	38 1	to	119	5/8
Note:						91	7/8	was	1/2	of :	119 5/8	to	64	and
after	avera	ges o	crosse	d 92	did	not	reach	91 be	fore	the	y advanced	to	105	5/8
1923	Man	9 0			U4 ab	305	E 40							
	Oct.	60 99			ragn	100	5/8 3/4	We, s	3/4	OI	64			5/8
1820	000.	61			DOM	80	3/4	was	3/8	or	04	to	119	5/8
									D/Q	01	28 <u>1</u>	to	119	5/8
					A C+-	ana	Quanca	at Dat		OI	53	to	119	5/8
1924	May	20					Suppor				28 1		110	E /0
1924 1924	Dec.	~~			Cross	കായ	00 0/0	› WELE	<i>دری</i>	οt. Οτ	20 5 119 5/8	to	119	5/8
	2001				01 050	cu	014 00 <u>1</u>	, 01 1	919 (119 0/0			

A Big Bull Market followed.

In view of the fact that the averages made - High 103 in 1906 and in 1916 made a new High of 110 1/8 and in 1919 another record High 119 5/8 and in 1921 decline to 64, holding more than 4 points above 1/2 of 119 5/8, was a strong indication of much higher prices because of such a long period of time between these top levels. From January 1906 to December 1924, when averages went above 119 5/8, was nearly 19 years. You could figure they would first double the highest selling price or made 240. After that figure was crossed, you figure three times 119 5/8 of about 360.

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARATIVE BOTTOMS AND TOPS

1929 Sept. 2	High 386 If you take the range from extreme Low 28½ to 119 5/8 the range was 91 1/8. Multiply this range by 4 and we get 364½ as a probable top. The proper procedure after the averages were in new high, was to follow the trend and use all rules until there was a change in the main trend.
1926 July 1926 Apr.	High 1624 Low 135 1/8 was just under 1/2 of 115 to 1624 150 5/8 was 1/2 of 1624 to 135 1/8 When the averages crossed this level the second time they went right up to new highs.
1927 Oct. 1927 Oct.	High 199 7/8 Low 179 was 1/2 of 165 3/4 the last low to 199 7/8 189 3/8 was 1/2 of 119 7/8 to 179 When crossed this level never sold below 1901 again.
1928 Dec. 12	High 299 Low $254\frac{1}{2}$ was near 250 the $1/2$ of 200 $7/8$ to 299 Holding above the $1/2$ of last move indicated higher.
1929 Jan. 1928 Mar. 30	High 324 1
1929 May End of "	High 331 Last reaction before top Low 290 3/4 of 281 to 331 was 287 holding above this indicated support.
Then when crossed and crossed	306 the 1/2 of 281 to 331 310 the 1/2 of 331 to 290 indicated higher.
1929 Sept. 3	High 386 Final Top.

After the trend turned down, we calculated the Resistance Points from bottoms from 1896 to date, to get points to watch on the way down. The first 1/2 point of the last move from 281½ to 386, making 333 3/4, - this was broken on the first decline to 321, which was 1/2 of 255 to 386.

1929	Oct.	Last Rally	358	the 1/2 of 386 to 321
				was 253}, did not go 5 points above
			it then	broke wide open.
1929	Oct.	29	Low 213	was 1/2 of 381 to 386
1929	Oat.	31	High 273⅓	was 2/3 of 42 to 386
				and 2/3 of 53 to 386
			and just un	der 2/3 of 64 to 386

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARATIVE BOTTOMS AND TOPS

			-						
1989	Nov.	13	Low	195	1	atant na	nic bottom	and than	0 1000
			a str	ong mathema	tical	l point	which indic		
				d stop arou					
			When				64 to 386		ken
	-						53 to 386		
							42 to 386		
N	1.4 ~	h 1 1.					281 to 386		2 500
		h according to lling point -							
		int, indicating					iges herd 2	points	above
	ong pr	,	-6		V-0 .				
1930	Apr.	17	High	296 3/8	was	3/4 of	28 1	to 386	
				ust 5 point					
				the 1/2 of				to 195 3	/8
				the average			ick under	290	
				never ralli				291 a	
			245 3	/4 was 1/2	of 19	95 3/8 1	0 296 3/8,	they nev	er
1030	June	to Aug.	proke	this 1/2 I	oint	, never	sold at 250	again.	
1950		ms at	208 +	o 214 which	1000	1/9 04	2gc	to 386	
	20000		200 0	0 214 #11101	ı wab			to 386	
1930	Sept.	10	Last.	High 247	waa		195 3/8		\$/8
2000	Dopo,	-0	Then	followed a	big	dealine	breaking a	ll madn l	/2
							broke 193		
							above 198		
1930	Dec.	17		155 1			38 }		
						1/3 of	42	to 386	
3073	¥		***	2003		7.10 - 0	×	4 - 700	
1931	Jan.		High	175 1	wa.s	3/8 of	63	to 386	
1931	Jan.	24	Low	160	W0 6	1/3 of	85 3/4	to 386 to 386	
1001	· carr	~4	пом	165 }	we e	1/2 01		to 175	
			When	it orossed	this	level	it never so		
				it made ne					•
1931	Feb.	24		197# was .					
			_				nd under lo	w of	
			Nov.	1929 and la	st T	op of N	ov. 1930 - :	making th	nie
				e point to					
		tant point to	watch					to 197#	
	Mar.		Low			1/2 of		to 197#	
1931	Mar.	20	High	189	was	5/8 of			
							85 3/4	to 386	
t - 4 + - m - m		Man hasks	1 00		41.0	3/8 of		to 386	
		Mar. broke oline followe	176		tne	1/2 of	1004	to 197‡	
Later br		OTTHE TOTTOME	161	whia!	h wee	1/4 00	85 3/4	to 386	
Then br			Low	155} and				00 000	
111011 01	Ono		2011	Loop and	20011	100	••		

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARAT	IVE BO	TTOMS AND TOP	3		
1931	June	2	Low 120 was 1/4 of 85 3/4 and 3/4 of 157% and back to 1919 Top. A strong support for a rally.		386
1931	June	27	High 157½ was 1/3 of 42 and just under 1/2 of 197½ and at Lows of Dec. 1930 made this a Sure Selling Level.	to to	386 120
1931	Oat.	5	Low 85½ Same Low as Oct. 27, 1923		40
1931	Nov.	9	85 was 1/8 of 386 High 119 5/8 was under 1/2 of 1574 and 1/4 of 284 and 1/8 of 85 3/4	to	42 85 ½ 386 386
			A sharp decline followed.		
1932	Jan.	7	Low 70 was 1/8 of 284	to	386
1932	Mar.		Low 70 was 1/8 of 28½ High 89½ was 3/8 of 119 5/8 79 3/4 was 1/2 of 70 When it broke under 79 it declined fast	to	70 8 9]
1932	July	8	Low 40½ Final Low - End of Great Bear Market Down to Lows of 1898.		
1932	Sept.	8		to to	40€ 40€
1933	Feb.	27		to to	-
1933	Mar.	18	Low 49½ was 3/4 of 40½ High 64½ was 1/2 of 49½	to	81
1933	Apr.	1	Last Low 54 3/4 not 3 points under		•
				to	64 2
			A rapid advance followed,		
			crossed 1/2 of 491 and 1/2 of 401	to to	
1933	July	17	High 110½ was 3/8 of 296 3/4	LO	81 5
	•	*	just under 5/8 of 1461	to	40 1

Why did prices of the Dow Jones 30 Industrial Averages make High at 1101 and 1111 in 1933 and 1934?

The highest selling point in 1929 was 386. 1/3 of this is 128 5/8. 1/4 of 386 is 96. The half-way point between 1/3 and 1/4 points is 112. This is one of the reasons that so many tops were made around this level for such a long period of time before they were crossed.

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARATIVE BOTTOMS AND TOPS

Why 821 Low, October, 1933?

In September 1932, the old Top 81. From the low of 49 to 111 the half-way point is 80 to From the breakaway point 55 to 111 the half-way point is 83 to fact that the averages held above the extreme half-way point was a sign of strength and good support. From 111 to 82 to the half-way point was 97.

In March, 1935, the averages started up from 95½, not 3 points under this half-way point and on March 31, 1939, the averages declined to 97½ which was also the half-way point of the highest selling point 195½ in 1937.

1933	Oct.	21	Low 82 was above 1/2 of 49 to and 1/8 of 386 to and 1/2 of 54 3/4 to Holding above these important 1/2 points, i cated strong support	40 1 110
1934	Feb.	5	High 1111	
1934	Mar.	នា	Low 82 to 111 made 97 the 1/2 point. Low 97 rallied to 107	
	July		Low 84 was 3/8 of 157 to	401
2001	0423	20	From 1111	405
			To 84 the 1/2 point was 98	
1935	Feb.	18	High 108€	
		18		111]
			and 1/2 of 195	2
			and 1/4 of 386	
			From 108	
			To 951 the 1/2 was 101 3/4	
			Crossed this minor 1/2 point and crossed 0	
			Tops 1101 to 1111 and Big Bull Market foll	owed.
1936	Apr.	6	High 1631 was 3/8 of 281 to	386
	-		was 3/8 of 386 to	
1936	Apr.	30	Low 141 was 7/8 of 401 to	-
			Just 3 points under 1/2 of 176 to	
			•	-
1937	Mar.	10	High 1951 Same as Low Nov. 13, 1929 and	
			Last High Oct. 1930.	
			Just under High of Feb. 1931. This was no	t
			3 points above 193, the 1/2 of 386 and a	
			sure place to go Short.	
1937	June	17	Low 163 wes 3/8 of 281 +0	386
1937	June	17	Low 163 was 3/8 of 28 to was 1/2 of 141 to	386 195]

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARATIVE	BOTTOMS	AND	TOPS

COMPARATIVE BUILDING AND TOPS		
1937 Aug. 14	High $190\frac{1}{2}$ just $2\frac{1}{2}$ points under $1/2$ of 386 and a lower a sign of weakness.	Top-
	The 1/2 point from 163 to 195 was 179\(\frac{1}{4}\) 163 to 190\(\frac{1}{4}\) was 176 3/4. When these 16 were broken a panicky decline followed.	evels
1929 Oct. 19 1929 Oct. 29	Low 115½ was 1/2 of 195½ High 141½ was 2/3 of 195½ and under 3/8 of 386	to 40½ to 40½
1937 Nov. 23 1938 Jan. 15	Low 112½ was 3/8 of 196 3/4 High 134½ was 3/8 of 40½ and 3/8 of 95½	to 296 3/4 to 195a
1938 Mar. 31 Final Bottom of Panic	Low 97½ 97½ was 1/2 of 195½ and 3/8 of 40½ and 1/3 of 296 3/4 and 1/4 of 386	to 195½
	This was a safe buying point.	
1938 Apr. 18	and 2/3 of 157€	to 195 1 to 140 1
1938 May 27	and 1/8 of 195	to 295 3/4 to 971 to 1211
	When it crossed 110 showed strong up as fast.	nd advanced
1938 July 25 1938 Sept. 26	High 1464 was 1/2 of 1952 Low 128 was 1/3 of 386 and 1/3 of 1952	to 971
		to 1464
1938 Nov. 10	High 158 3/4 When the averages crossed 146	
	1/2 of 97½ indicated the 5/8 point at 158 3/4. 158 3/4 was 5/8 of 97½ and 1/3 of 40½ and 3/4 of 195½	to 195½ to 195½ to 386 to 40½
	Making this a sure point to Sell Shirt	

DOW JONES 30 INDUSTRIAL AVERAGES

COMPARATIVE BOTTOMS AND TOPS

 			_										
1939	Nov.	26	Low	145					195 1 195 1		to	97₺	
									128		to	158	3/4
									97₺			158	
						and	-		401			195	-
						anu	0,0	01	705		vo	1000	
1939	Mar.	10	High	152	ı	was	7/8	വഴ	971		t.o	158	3/4
1000	11102		Last				.,,	-	J. H		00	200	0,4
						the 1/2	wes		1484				
			••	200	0, 2					1/8	t.o	1592	
						and			144		00	1005	ì
			When	hrok	a +1	nis 1/2			-		+		
			1111011	DI ON	9 01	110 1/2	porn	· u	001111	ou ras	٠.		
1939	Apr.	11	Low	120		was	3/8	of	971		to	158	3/4
	•								158				,
			Note	118					401		t.o	195	
						stronge							
						above,							
				-					28 1		to	386	
							•		-				
1939	May	10	High	134	5/8	wa.s	3/8	of	158	3/4	to	120	
					•				1951			97 1	
1939	May	17	Low	128	3/8	was						158	
1939	June					wa.s						158	
1939	June	30	Low	129					971			109	
									386				.,
								_	-				

A strong support point and buying level. The Market rallied and crossed 139 3/8 the 1/2 of 120 to 158 3/4 and on July 25th advanced to 145 3/4 just under 1/2 of 971 to 1951 and 2/3 of 120 to 158 3/4

DOW JONES 20 RAILROAD AVERAGES

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42 WHY?
            8, 1896 ..... Low
     Aug.
                                                 was 1/2 of 92, the last high
                                        46
                                                 was 1/2 of 99, the extreme high
                                        49<del>1</del>
                                                 was 1/2 of 541 to 42
                                        48₺
               1897 Low of reaction
      Apr,
                                                 was 1/2 of 42 to
                                                                  92
                                        67±
               1897 ......High
      Sept.
                                                 was 1/2 of 484 to
                                                                  67<del>1.</del>
               1897 ..... Low
                                        57長
     Nov.
                                                                  674
                                                 was 1/2 of 42 to
                                        58 3/4
               1898 ..... Low
      Apr.
                                                 was 1/2 of 42 to
                                                                  99
               1898 ..... High
                                        70₽
      Aug.
                                                 was 1/2 of 42 to 92 close
               1898 ..... Low
                                        65 3/4
      Oat.
After averages crossed 70%, the 1/2 of 42 to 99 never sold lower and advanced to 138 3/
      Jan. 19, 1906.
                                                 was 7/8 of 99
               1899 ..... High
                                        87
      Apr.
                                                 and 2/3 of 42 to 99
                                        77社
                                                 was 1/2 of 66
                                                               to
                                                                   87
      June
               1899 ..... Low
               1899 ..... Low
                                        72≟
      Dec.
                                                     1/2
                                                           42
                                        just above
                                                 and 1/2 of 56 to
                                                                   87
(Note triple bottom near this level)
      June ..... Low
                                        73
      Oct. ..... Low
                                        73 3/4
                                                          87 to 72<del>1</del>
                                        79 3/4
                                                 was 1/2
(Note)
                                                 was 1/2 of 62 to 99 and in
                                        80<del>}</del>
                                  and
               1899 the breakaway came when averages crossed 80% after making triple
bottoms above the 1/2 of 42 to 99, - later crossed 99, the old top advancing quickly
to 117 3/4 May, 1901 and on Sept. 30, 1902 made high at 1294.
                                                  was 1/8 of 42 to 117 3/4
             9, 1901 ..... Low 1031
      May
                                                  and 1/4 of 56 to 117 3/4
                                                  and 1/3 of 72th to 117 3/4
                                                  was 1/4 of 721 to 117 3/4
                                       106₺
 (Note) .....
and on secondary reaction after double top, the market made 3 bottoms: 105, 1054, 1064,
starting up from 106t and advancing to new highs.
      Sept. 10, 1902 ..... High 129t
               1902 ..... Low 1134
                                                   3/4 of 56 to 1294
                                        just above
                                                 at 1/2 of 1101 to 1291
               1903 ..... High 1211
      Jan.
(Note) 1014 was 1/2 of 721 to 1291, broke this level and rallied 2 points above, then
broke under and declined further.
                                        89 3/8
                                                  at 1/2 of 484 to 1294
                1903 ..... Low
      Oct.
                                                  at 1/4 of 129% to 89 3/8
                1904 ..... High 99 3/4
       Jan.
                                         and under 1/2 of 721 to 1291
               1904 crossed old top and crossed 1/4 of 129th to 89 3/8, then came the
breakaway and rapid advance to new highs.
                                   Later crossed 1/2 point 129th to 89 3/8
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DOW JONES 20 RAILROAD AVERAGES

Mar.&Apr. 1905 made double tops at 127 July 1905 Low 114½ at 3/4 of 89 3/8 to 129¼, later crossed 121 above 1/2 of 114½ to 127 advanced to
138 3/8 Jan.19, 1908. May 1906 Low 120 (This was first sharp reaction).
Last Low 114 to 138 3/8, the 1/2
point
Then secondary reaction 121 3/4 Then crossed 129
And advanced to
Showed down when they broke the
No. 14 3000 Town 00 5/0 of 5/0 of 1/0 5/0 to 1/0
Mar. 14, 1907 Low 98 3/8 at 3/8 of 138 3/8 to 72\frac{1}{2} and 1/2 of 56 to 138 3/8
May 1907
and 2/3 of 56 to 138 3/8
(Note
Nov. 23, 1907Low 61 3/8 at 3/8 of 484 to 138 3/8
Jan. 1908
a secondary reaction to 864 Just under 1/2 of 81 3/8 to 95 3/4. Later
crossed top at 95 3/4 and 1/4 of 138 3/8 to 81 3/8.
Sept. 1908
Sept. 22, 1908 reacted to 103 3/8 the 1/2 of 98 to 110 3/8 Jan. 1909
Mar. 1909Low 113 3/4 above 1/2 of 103 3/8 to 120 3/4
Aug. 14, 1909
(Note)
Last move up 113 3/4 to 1344
the 1/2 at 124. When the averages broke this level they never sold above 125 3/4
Until declined to 105 5/8
On July 26, 1910. This Low was just under 1/8 of 81 3/8 to 1341
Oct. 1910
Dec. 1910Low 1111
good support @ 1/2 point July 1911
3/4 of 81 3/8 to 134 3/8 at 121
and
When this level was broken, sharp decline followed.

DOW JONES 20 RAILROAD AVERAGES

(Note) Averages ac Reacted .to.	ivanced toed the 1/2 at	109 3/4 117 119 115 117	was	1/2 of	105 5/8 124 higher.	to to	124 109 3/4.
Oat	1912Kigi	124 5/8	at	2/3 of	105 5/8	to	134분
							124 5/8
When exercise	es broke this level nev	er rallied					,
	1913Low		at	3/8 of	81 3/8	3 to	134 1.
		2002		0,00	,		
Sept.							
an							
Jan.	1914High	h 109∱	at	3/8 of	105 8/	3 to	124 5/B
	and	under		1/2 of	124 5/	B to	100∳
	oke under	105	the	1/2 of	100	to	109₺
	with very small rallie						
July 30	, 1914Low	89≹					
(Note) From	1896Low	42					
	to	1.70 7.10	41	1 10	- 00 1 /		

When Exchange opened in December 1914, the 20 RAILROAD AVERAGES declined to 871.